	Application No.	Applicant(s)	
Notice of Allowability	09/912,589	BOUR ET AL.	
	Examiner	Art Unit	
	Wai-Sing Louie	2814	
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is	n this application. If not included nunication will be mailed in due course.	
1. X This communication is responsive to 12/7/04.			
2. X The allowed claim(s) is/are <u>9-13,15-17,25-29 and 31-33</u> .			
3. \boxtimes The drawings filed on <u>24 July 2001</u> are accepted by the Ex	aminer.		
4. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to the company of the priority of the deponant of the proper included in the deponant of the priority of the priority documents and the deponant of the priority documents have a priority document and the priority documents have a priority document and the priority documents have a priority document and a priority documents have a priority documents have a priority document have a priori	e been received. been received in Application of this communication to fill IENT of this application. itted. Note the attached EX es reason(s) why the oath of the submitted. son's Patent Drawing Reviews Amendment / Comment of the header according to 37 C sit of BIOLOGICAL MAT	on No In this national stage application from the areply complying with the requirement of the drawings in the front (not the back) of the drawings in the submitted. Note the	nts OF
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date	6. Interview S Paper No 7. Examiner's	Informal Patent Application (PTO-152) Summary (PTO-413), /Mail Date Summary (PTO-413), Summary (PTO-4	

The 37 C.F.R. 1.131 Declaration has overcome the Goetz et al. reference and the non-

final rejection of previous office action is withdrawn. Claims 9-13, 15-17, 25-29, and 31-33 are

allowed.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

Rachel Leiterman on 2/15/05.

The application has been amended as follows:

In the claims

Cancel claims 18-24.

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

The claimed invention is a method of forming a light-emitting device, the method

comprising:

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 Forming a first semiconductor layer of a first conductivity type and having a first surface;

- Forming an active region over the first semiconductor layer, the active region including at least two quantum well layers separated by a barrier layer, where the quantum well layer and the barrier layer is graded layer formed from a III-Nitride semiconductor alloy In_xAl_yGa_{1-x-y}N where 0≤x≤1, 0≤y≤1, x+y≤1, the graded layer having a composition graded in a direction substantially perpendicular to the first surface of the first semiconductor layer;
- Forming a third semiconductor layer of a second conductivity type over the active region.

The prior art of record does not disclose or suggest either in singly or in combination the following limitations and other elements in the claims:

- Reference Jewell et al. (US 5,960,018) do not disclose a III-Nitride semiconductor alloy $In_xAl_yGa_{1-x-y}N$ where $0 \le x \le 1$, $0 \le y \le 1$, $x+y \le 1$.
- Reference Tadatomo et al. (US 5,810,925) do not disclose the quantum well layer and the barrier layer is graded composition in a direction substantially perpendicular to the first surface of the first semiconductor layer.

Therefore, the above references do not disclose the claimed invention of present application and claims 9-13, 15-17, 25-29, and 31-33 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wai-Sing Louie whose telephone number is (571) 272-1709. The

examiner can normally be reached on 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Wael Fahmy can be reached on (571) 272-1705. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LONG PHANINE

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